

Patent claims

1. A bearing arrangement for absorbing axial loads, comprising a plurality of axial roller bearings arranged one behind the other and each having a housing plate (1.1, 1.2, 1.3), a shaft plate (2.1, 2.2) and rolling body sets (3.1, 3.2, 3.3, 3.4) arranged between these runner plates, the shaft plates (2.1, 2.2) and the housing plates (1.1, 1.2, 1.3) being supported axially by means of spacer rings (5.1, 4.1, 4.2) arranged between them in each case, **characterized** in that the housing plates (1.1, 1.2, 1.3) and the shaft plates (2.1, 2.2) have a constant axial thickness over their entire radial extent in the region of the rolling body sets (3.1, 3.2, 3.3, 3.4), and at least one of the shaft plates (2.1, 2.2) is provided at its inner circumference with an annular clearance (6) which is inwardly open in the radial direction.
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2. The bearing arrangement as claimed in claim 1, **characterized** in that the lower shaft plate (2.1) is provided with the annular clearance (6).
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3. The bearing arrangement as claimed in claim 1, **characterized** in that the upper shaft plate (2.2) is provided with the annular clearance (6).
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4. The bearing arrangement as claimed in claim 1, **characterized** in that a securing ring (7) is provided at least in one of the clearances (6).
5. The bearing arrangement as claimed in claim 4, **characterized** in that the securing ring (7) is composed of an elastic material.
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6. The bearing arrangement as claimed in claim 4, **characterized** in that the securing ring (7) has a slot (7.1).